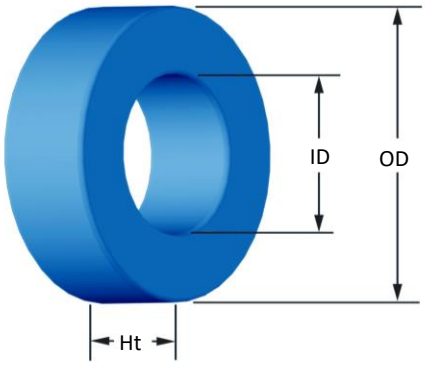
MICROMETALS™
POWDER CORE SOLUTIONS

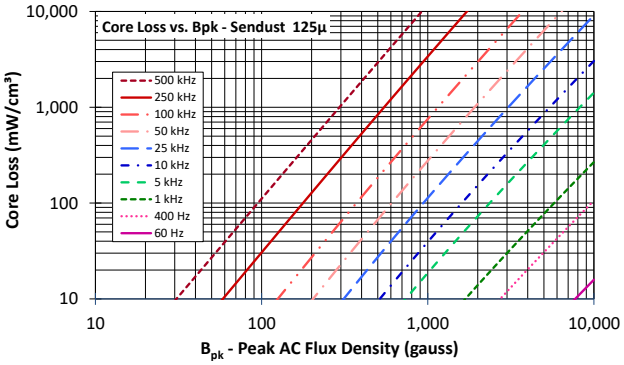
Part Number:	MS-134125-2

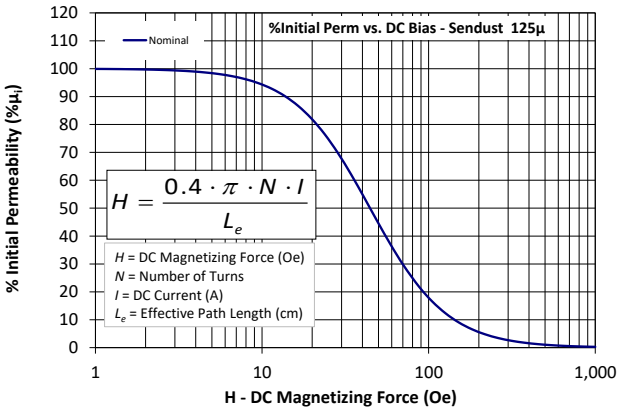
Revision 2021-Dec-01 - Generated 2021-Dec-01

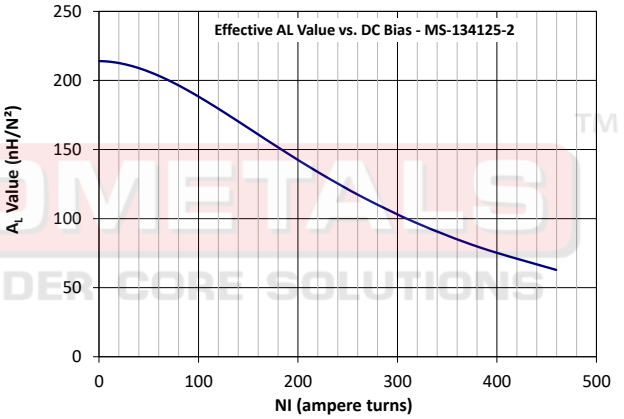


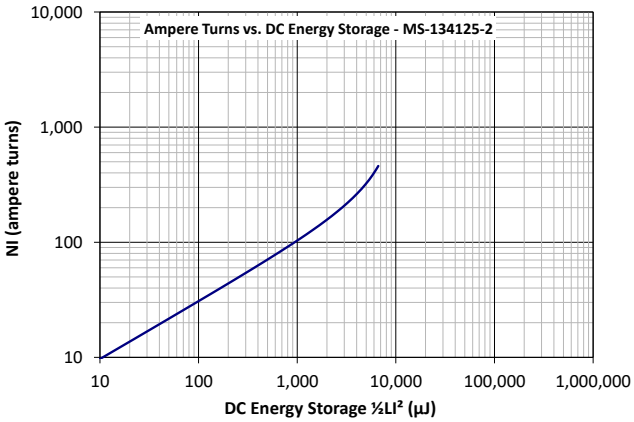
(If coated, Max./Min. includes coating)

OD	(nom. - bare core)	33.02 mm	1.300 in
	(max.)	33.83 mm	1.332 in
ID	(nom. - bare core)	19.94 mm	0.785 in
	(min.)	19.30 mm	0.760 in
HT	(nom. - bare core)	18.00 mm	0.709 in
	(max.)	19.00 mm	0.748 in
Mass	(approximate)	53 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	1.10 cm²	
	L_e - Eff. Mag. Path Length	8.15 cm	
	V_e - Eff. Core Volume	8.98 cm³	
	WA - Min. Eff. Window Area	2.93 cm²	
	sa - Surface Area	49.1 cm²	
	mlt - mean length per turn	6.22 cm	
Inductance	μ_i(reference)	125	
	A_L value (nominal)	214 nH/N²	
	Test Winding	N=70, #22 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.34 V	
	AL tolerance	±8%	
Core Loss	Core Loss(mW/cm³)= $\frac{f}{\frac{a}{Bpk^3}+\frac{b}{Bpk^{2.3}}+\frac{c}{Bpk^{1.65}}}+d\cdot Bpk^2\cdot f^2$		
	where B_{pk} expressed in gauss, f expressed in hertz, and:		
	a=1.394E+10, b=1.034E+09, c=1.244E+07, d=4.007E-14		
	B_{pk}	1000 G	
	frequency	50 kHz	
	Core Loss (nominal)	276 mW/cm³	
	Core Loss (maximum)	318 mW/cm³	
DC Saturation	$\%\mu_i \frac{1}{a+b\cdot H^c}+d$		
	where H expressed in oersteds, and:		
	a=1.000E-02, b=7.884E-06, c=1.883, d=0.000		
	H_{DC}	40 Oe	
	Percent Initial Perm(nom.)	55.0%	
	Percent Initial Perm(min.)	46.4%	
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	320 Pcs/Box	









Winding Table	**Wire Size** AWG	8	10	12	14	16	18	20	22	24	26	28
	mm	3.150	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315
	Single Layer Turns	14	18	22	29	36	46	58	73	91	114	142
	Rdc(Ω)	1.8 m	3.7 m	7.1 m	14.9 m	29.4 m	59.8 m	120.0 m	240.2 m	476.2 m	948.7 m	1.9
	Full Winding Turns	15	24	37	57	88	136	211	326	504	780	1,208
	Rdc(Ω)	1.9 m	4.9 m	12.0 m	29.3 m	72.0 m	176.9 m	436.5 m	1.1	2.6	6.5	16.0

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